Internal application No. PCT/JP03/07153

			ECI/OI	0210 8125	
	C1 ⁷ B29D30/32, 30/26			S. C. S.	
According to	o International Patent Classification (IPC) or to both na	ational classification and IPC	:		
B. FIELD	S SEARCHED				
	ocumentation searched (classification system followed C1 B29D30/32, 30/26	by classification symbols)			
Jitsu Koka	ion searched other than minimum documentation to the 190 Shinan Koho 1922-1996 L Jitsuyo Shinan Koho 1971-2003	Toroku Jitsuyo Sh Jitsuyo Shinan To	ninan Koho oroku Koho	1994–2003 1996–2003	
	ata base consulted during the international search (name of the consulted during the cons	e of data base and, where pr	acticable, sear	ch terms used)	
Category*	Citation of document, with indication, where ap	propriate, of the relevant pa	ssages	Relevant to claim No.	
X	JP 57-116630 A (Mitsubishi He 20 July, 1982 (20.07.82), Full text; Figs. 1 to 12 (Family: none)	eavy Industries,	Ltd.),	1,2	
Х	US 3767509 A (Georges GAZUIT), 23 October, 1973 (23.10.73), Claims 1 to 8; column 3, lines 17 to 37; column 4, lines 36 to 45 & JP 47-018983 A			1,2	
A	JP 06-055664 A (Sumitomo Rub 01 March, 1994 (01.03.94), (Family: none)	ber Industries,	Ltd.),	3-7	
Further documents are listed in the continuation of Box C.		See patent family an	nex.		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		priority date and not in understand the principl document of particular considered novel or car step when the document of particular considered to involve a combined with one or combination being obv	priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the actual completion of the international search 20 August, 2003 (20.08.03)		Date of mailing of the international search report 02 September, 2003 (02.09.03)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	·		

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